

IN THE CLAIMS:

Please cancel claims 1-3 without prejudice and add claims 4-9 as follows:

--4. An arrangement for interferometric radar measurement comprising:

a transmitter disposed on a turnstile of a ROSAR system of a helicopter radar;

at least two assigned coherent receiving antennas having receiving channels disposed on a turnstile of a ROSAR system of a helicopter radar; and

an additional transmitting/receiving antenna sharply focused in the elevation direction.

5. The arrangement for interferometric radar measurement according to claim 4, wherein said transmitter and said at least two assigned coherent receiving antennas are arranged at an end of said turnstile.

6. The arrangement for interferometric radar measurement according to claim 4, wherein said receiving antennas are

positioned vertically over each other in a normal position of a helicopter.

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i. A process for interferometric radar measurement comprising the steps of:

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assigning two coherent receiving antennas having receiving channels to a transmitter;

calculating a path length difference of two distances to a measured receiving point from the wave length of a transmitted radar signal and of a measured phase difference of a reception echo of both coherent receiving channels;

assigning said two coherent receiving antennas to a transmitter of a ROSAR system;

arranging said two coherent receiving antennas and said transmitter on a rotating turnstile of a radar; and

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evaluating signals of a sharply focused transmitting/receiving antenna for determination of a phase difference;

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